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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/218,119	12/21/1998	ANDREW M. PROEHL	80398-P158	3529

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EXAMINER

LONSBERRY, HUNTER B

ART UNIT	PAPER NUMBER
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2611

DATE MAILED: 08/10/2004

24

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/218,119

Applicant(s)

PROEHL ET AL.

Examiner

Hunter B. Lonsberry

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2004.
2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 11-18, 21-32, 36, 37, 43-52 and 57-60 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 11-18, 21-32, 36, 37, 43-49, 50-52, and 57-60 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION***Response to Arguments***

Applicant's arguments filed 5/19/04 have been fully considered but they are not persuasive.

1) Applicant argues that the combination of Lawler, Diehl and Cragun does not teach every element of the invention (Response, page 8), that the is not motivation to combine the references (Response page 9, paragraph 1) that the is no reasonable expectation of success from the combination (page 9, paragraph 2-page 10), and that neither the references or the combination teach or suggest a first notification that is issued in response to a first signal generated by a viewer during broadcast of an advertisement of an upcoming program, presenting a menu comprising indications of viewer interest/disinterest, and a second signal indicating a viewer menu selection (Response page 10).

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, Lawler discloses a program record/reminder system in Figures 4 and 6, in which a user selects a TV program from a program guide which they wish to view at a later date via remind button 140 or cancel

Art Unit: 2611

button 132, thus generating a first signal, in response to the first signal, a notification presenting a future show options menu to a viewer with indications of interest or disinterest a the stub receives a second signal indicating a users menu selection (column 10, lines 51-59, figure 6, remind 140, cancel 132), 5 seconds before the beginning of the program a notification is generated reminding the user of the broadcast of the program (Figure 9, column 12, lines 35-43, 53-63). Lawler does not disclose a system in which the reminder notification appears during a commercial advertisement or storing the reminder information locally. Cragun discloses a system in which a user inputs keywords for a search parameter, a local CPU then executes a program to scan the close captions of incoming video programs for words or phases which match the search and notifies the user (Figures 8-10, column 5, line 49-column 6, line 8, lines 40-58, column 7, lines 4-column 9, line 65, column 12, lines 41-59, column 15, line 60-column 16, line 57). Diehl is relied upon to teach a system where a user can indicated interest or disinterest in a program by pressing a button during an advertisement for an upcoming broadcast of a program by pressing a learn button. This results in CPU 29 querying TV 16, Data Extractor 12 retrieves the program information and transfers it to the CPU, the VCR then programs itself to record the program (column 4, lines 10-column 5, line 33). All three references are directed to aiding a user in viewing programs of interest and are thus analogous art. Additionally, all three require a local CPU to locate items of interest. The combination of Lawler, Diehl and Cragun would result in an environment in which a user could watch an advertisement of an upcoming

Art Unit: 2611

program, present a first notification allowing the user to decide if they interested in setting a reminder for the program, recording the program, or is not interested in the program, and then storing that program information locally and then presenting a notification to the user when the program is about to begin as required by claim 11, and thus enabling a user to make impulse program viewing choices.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 11-18, 21-32, 36, 37, 43-48, 50-52, and 58-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,699,107 to Lawler in view of, U.S. Patent 5,659,653 to Diehl and U.S. Patent 5,859,662 to Cragun.
2. Regarding claims 11 and 43-45, Lawler discloses a program reminder system in Figures 4 and 6, in which a user selects a TV program from a program guide which they wish to view at a later date via remind button 140 or cancel button 132, the program guide provides descriptive information on the program, five seconds before the program's start time a reminder is generated in a window which is placed over the currently watched program (Figure 9, column 12, lines 35-43, 53-63), the examiner considers the action button press to be the first signal, the menu to be the notification, and the user selection the remind 144

Art Unit: 2611

(this show) or cancel 134 buttons to be the second signal indication viewer interest or disinterest.

Lawler does not disclose a system in which the reminder notification appears during a commercial advertisement or storing the reminder information locally.

Diehl discloses a system in which a user presses a learn button during an advertisement for an upcoming broadcast of a program that the user is interested in, by pressing the learn button, CPU 29 queries TV 16 and Data Extractor 12 retrieves the program information and transfers it to the CPU, the VCR then programs itself to record the program (column 4, lines 10-column 5, line 33).

Cragun discloses a system in which a user inputs keywords for a search parameter, a local CPU then executes a program to scan the close captions of incoming video programs for words or phrases which match the search and notifies the user (Figures 8-10, column 5, line 49-column 6, line 8, lines 40-58, column 7, lines 4-column 9, line 65, column 12, lines 41-59, column 15, line 60-column 16, line 57).

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the reminder system of Lawler to store program information for an upcoming program locally, retrieving program information and issuing a record command after viewing an advertisement for an upcoming program, as taught by Diehl, and generating a notification locally as taught by Cragun thus providing a number of impulse program choices to a user.

3. Regarding claim 12, Lawler discloses a program reminder system which provides a second reminder five seconds before the program's start time which is

Art Unit: 2611

overlaid over the currently watched program (Figure 9); the user can then tune to the program action button 70 if they are interested in viewing the program

(column 12, lines 35-43, 53-63, column 13, lines 1-6).

4. Regarding claim 13, Lawler discloses a program reminder system which provides a second reminder five seconds before the program's start time which is overlaid over the currently watched program (Figure 9, column 12, lines 35-43, 53-63).

5. Regarding claim 14, Lawler discloses in Figure 2 an action key 70 that is used by a subscriber to select a television program (column 13, lines 1-6).

6. Regarding claim 15, see claim 14.

7. Regarding claim 16, Lawler discloses in Figure 2 an action key 70 that is used by a subscriber to select a television program and tunes to the proper channel (column 13, lines 1-6).

8. Regarding claim 17, see claim 13.

9. Regarding claim 18, Lawler discloses in Figure 2 an action key 70 that is used by a subscriber to select a television program (column 13, lines 1-6).

Regarding claim 21, Lawler discloses a program reminder system which provides a second reminder five seconds before the program's start time which is overlaid over the currently watched program (Figure 9); the user can then tune to the program action button 70 if they are interested in viewing the program (column 12, lines 35-43, 53-63, column 13, lines 1-6).

Lawler does not disclose a system in which the reminder notification appears during a commercial advertisement or storing the reminder information locally.

Diehl discloses a system in which a user presses a learn button during an advertisement for an upcoming broadcast of a program that the user is interested in, by pressing the learn button, CPU 29 queries TV 16 and Data extractor retrieves the program information and transfers it to the CPU, the VCR then programs itself to record the program (column 4, lines 10-column 5, line 33).

Cragun discloses a system in which a user inputs keywords for a search parameter, a local CPU then executes a program to scan the close captions of incoming video programs for words or phrases which match the search and notifies the user (Figures 8-10, column 5, line 49-column 6, line 8, lines 40-58, column 7, lines 4-column 9, line 65, column 12, lines 41-59, column 15, line 60-column 16, line 57).

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the reminder system of Lawler to store program information for an upcoming program locally, retrieving program information and issuing a record command after viewing an advertisement for an upcoming program, as taught by Diehl, and generating a notification locally as taught by Cragun thus providing a number of impulse program choices to a user.

10. Regarding claim 22, Lawler discloses in Figure 9, a program reminder system that superimposes a program-viewing window over the currently watched program.

Art Unit: 2611

11. Regarding claims 23 and 24, Lawler discloses in Figure 9, a program reminder system that displays a TV program reminder in a window prior to the beginning of a program and switches to a reminded program (column 12, lines 35-43, 53-63, column 13, lines 1-6)). Lawler also discloses in Figures 6 a program guide (Figure 6) with a remind button 140 and cancel button 132.

The combined system of Lawler, Cragun and Diehl does not disclose a reminder system, which includes a button in the notification window, but instead utilizes a button 70 on the remote control when then tunes to the program with the reminder (column 13, lines 1-6).

Therefore it would have been obvious to one skilled in the art at the time of invention to modify the combined system of Lawler, Florin, Cragun and Diehl to display a button to indicate interest instead pressing a button on the remote control thereby reducing the number of buttons on a remote control and increase usability of the system

12. Regarding claim 25, Lawler discloses a program reminder system, which provides a second reminder five seconds before the program's start time; the user can then tune to the program (column 12, lines 35-43, 53-63).

13. Regarding claim 26, Lawler discloses in Figure 2, a video display 20 and in Figure 9, a reminder notification 152 overlaid on a TV program.

14. Regarding claim 27, Lawler discloses in Figure 9, a program reminder system that displays a TV program reminder in a window prior to the beginning of a program and tunes to the program once a user presses a button 70 on the remote control (column 13, lines 1-6).

Art Unit: 2611

15. Regarding claim 28, Lawler discloses that the user presses a button 70 on the remote control to tune to the programming (column 13, lines 1-6).

16. Regarding claim 29, Lawler discloses that the user presses a button 70 on the remote control to tune to the programming (column 13, lines 1-6), and analog or digital decoder is used to tune and decode the picture (column 6, lines 7-23).

17. Regarding claim 30, Lawler discloses a program reminder system that displays a reminder to a user several minutes before each designated program is to start (column 12, lines 53-63).

18. Regarding claim 31, Lawler discloses in Figure 6, a program guide with a reminder button 140 which a user uses to create a future program reminder event (column 13, lines 7-16).

19. Regarding claim 32, Lawler discloses in Figure 6, a program guide calendar which a user may use to set a reminder to watch a show in the future by pressing a remind button 140.

20. Regarding claim 36, Lawler discloses a program reminder system in Figures 4 and 6, in which a user selects a TV program from a program guide which they wish to view at a later date via remind button 140 or cancel button 132, the program guide provides descriptive information on the program, five seconds before the program's start time a reminder is generated in a window which is placed over the currently watched program (Figure 9, column 12, lines 35-43, 53-63).

Art Unit: 2611

Lawler does not disclose a system in which the reminder notification appears during a commercial advertisement or storing the reminder information locally.

Diehl discloses a system in which a user presses a learn button during an advertisement for an upcoming broadcast of a program that the user is interested in, by pressing the learn button, CPU 29 queries TV 16 and Data extractor retrieves the program information and transfers it to the CPU, the VCR then programs itself to record the program (column 4, lines 10-column 5, line 33).

Cragun discloses a system in which a user inputs keywords for a search parameter, a local CPU then executes a program to scan the close captions of incoming video programs for words or phrases which match the search and notifies the user (Figures 8-10, column 5, line 49-column 6, line 8, lines 40-58, column 7, lines 4-column 9, line 65, column 12, lines 41-59, column 15, line 60-column 16, line 57).

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify the reminder system of Lawler to store program information for an upcoming program locally, retrieving program information and issuing a record command after viewing an advertisement for an upcoming program, as taught by Diehl, and generating a notification locally as taught by Cragun thus providing a number of impulse program choices to a user.

21. Regarding claim 37, Lawler discloses a program reminder system which provides a second reminder five seconds before the program's start time which is overlaid over the currently watched program (Figure 9); the user can then tune to

Art Unit: 2611

the program action button 70 if they are interested in viewing the program (column 12, lines 35-43, 53-63, column 13, lines 1-6).

22. Regarding claim 46 and 58, Lawler discloses in Figure 2, a CPU 58 inside of STB 18 which controls display 20 (column 5, lines 58-column 6, line 6).

23. Regarding claims 47, 48, 59 and 60, Lawler discloses that the STB is controlled via an IR remote control 22 (column 5, lines 58-column 6, line 6). Remote control 22 inherently contains a processor in order to interpret user input into commands to transmit via the infrared spectrum.

24. Regarding claim 50, Lawler discloses in Figure 2, a CPU 58 inside of STB 18 which controls display 20 (column 5, lines 58-column 6, line 6).

25. Regarding claims 51 and 52, Lawler discloses that the STB is controlled via an IR remote control 22 (column 5, lines 58-column 6, line 6). Remote control 22 inherently contains a processor in order to interpret user input into commands to transmit via the infrared spectrum.

26. Claims 49 and 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,699,107 to Lawler in view of U.S. Patent 5,659,653 to Diehl and Patent 5,859,662 to Cragun in further view of U.S. Patent 5,990,927 to Hendricks.

27. Regarding claim 49, Lawler discloses in Figure 2, a set top box 18 with an analog decoder 42 for decoding broadcast TV, a network communication interface 56 for decoding control signals from the headend, a CPU 58 which delivers or requests information to/from the headend and controls selection of

Art Unit: 2611

programming as well as the program guide (column 6, lines 7-31) column 7, lines 8-16).

Hendricks discloses a EPG and reminder system which retrieves program information from the headend, a user selects a program which they wish to record (Figure 15), the recording information is stored locally to later be sent to a VCR, prior to the recording time a reminder screen (Figure 22) is displayed (column 33, lines 34-58, column 40, lines 55-column 41, line 60).

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Lawler/Diehl/Cragun to store the reminder information locally and be able to select programming to record as taught by Hendricks thereby allowing a user to impulse select a program to view.

28. Regarding claim 57, Lawler discloses in Figure 2, a set top box 18 with an analog decoder 42 for decoding broadcast TV, a network communication interface 56 for decoding control signals from the headend, a CPU 58 which delivers or requests information to/from the headend and controls selection of programming as well as the program guide (column 6, lines 7-31) column 7, lines 8-16).

Diehl discloses storing a record request locally (column 4, lines 10-column 5, line 33).

Lawler, Diehl and Cragun do not disclose displaying a 2nd notification to record prior to the start time of the broadcast.

Hendricks discloses a EPG and reminder system which retrieves program information from the headend, a user selects a program which they wish to

Art Unit: 2611

record (Figure 15), the recording information is stored locally to later be sent to a VCR, prior to the recording time a reminder screen (Figure 22) is displayed (column 33, lines 34-58, column 40, lines 55-column 41, line 60).

Therefore, it would have been obvious to one skilled in the art at the time of invention to modify Lawler/Cragun and Diehl to transmit a second notification prior to the recording start time to make sure that a video tape is loaded into the VCR to record on.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hunter B. Lonsberry whose telephone number is 703-305-3234. The examiner can normally be reached on Monday-Friday during normal business hours.

Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on 703-305-4755. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HBL



VIVEK SRIVASTAVA
PRIMARY EXAMINER